HW_13

Basic Level 1-5

1. Total Sales Amount
Total sales amount = SUM(ChocolateSales[Amount])

2. Create a measure to calculate total sales for the current year.

Total Sales Current Year = CALCULATE([Total Sales amount], YEAR('Chocolate Sales'[Date]) = Year(Today()))

3. Create a measure to calculate total sales for the last year.

Total Sales Last Year =

CALCULATE(

   [Total Sales],

   SAMEPERIODLASTYEAR(ChocolateSales[Date])

)

4.Create a measure to calculate total sales for the current month.

Total Sales This Month =

CALCULATE(

   [Total Sales],

   MONTH(ChocolateSales[Date]) = MONTH(TODAY()),

   YEAR(ChocolateSales[Date]) = YEAR(TODAY())

)

5. Create a measure to calculate total sales for the current quarter.

Total Sales This Quarter =

    CALCULATE([Total Sales],
    DATESINPERIOD(ChocolateSales[Date],TODAY(), -1,QUARTER))

INTERMEDIATE (6–10)

Sales Growth % Compared to Last Year (%YoY)

YoY Growth % =

DIVIDE(

    [Total Sales This Year] - [Total Sales Last Year],

    [Total Sales Last Year],

    0

)

Create a measure to calculate to retrieve sales from the last month.

Sales Last Month =

CALCULATE(

    [Total Sales],

    PREVIOUSMONTH(ChocolateSales[Date])

)

Create a measure to calculate a running total of sales using

Running Total Sales =

```
CALCULATE(

    [Total Sales],

    FILTER(

        ALLSELECTED(ChocolateSales[Date]),

        ChocolateSales[Date] <= MAX(ChocolateSales[Date])

    )

)
```

Create a measure to compute sales for the last 3 months.

```
Sales Last 3 Months =

CALCULATE(

    [Total Sales],

    DATESINPERIOD(

        ChocolateSales[Date],

        TODAY(),

        -3,

        MONTH

    )

)
```

Create a measure to identify the month with the highest sales in the previous 12 months.

```
Max Sales Month =

CALCULATE(
```

```
    MAXX(

        VALUES(MONTH(ChocolateSales[Date])),

        CALCULATE([Total Sales])

    ),

    DATESINPERIOD(ChocolateSales[Date], TODAY(), -12, MONTH)
)
```

Advanced (11–15)

Create a measure to compare Q1 Sales of Each Year. Use time intelligence functions with filters to isolate and compare Q1 across years.

```
Q1 Sales =

CALCULATE(

    [Total Sales],

    QUARTER(ChocolateSales[Date]) = 1
)
```

Create a measure to Show YoY Difference Only for December.

```
YoY Difference in December =

CALCULATE(

    [Total Sales This Year] - [Total Sales Last Year],

    MONTH(ChocolateSales[Date]) = 12
)
```

Create a measure that sums the last 12 months using.
Rolling 12 Month Sales =

CALCULATE(

   [Total Sales],

   DATESINPERIOD(

     ChocolateSales[Date],

     MAX(ChocolateSales[Date]),

     -12,

     MONTH

)

)